## 24th Australian Institute of Physics Congress



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## Simulating power cable damage through monitoring temperature of multimode optical fibres with a state-of-the-art distributed sensing instument

Tuesday 13 December 2022 18:00 (15 minutes)

Detection of simulated failures in underground power cables using Multimode fibers. Failure in underground power cable couases overheat (hot-spot), and locating the problem is difficult. Detection is achieved through Distributed Temperature Sensors that use RAMAN-based measurements for high-precision temperature detection.

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